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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-190313

(43)Date of publication of application : 05.07.2002

(51)Int.Cl.

H01M 8/24

H01M 8/04

H01M 8/10

(21)Application number : 2000-390395

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(22)Date of filing : 22.12.2000

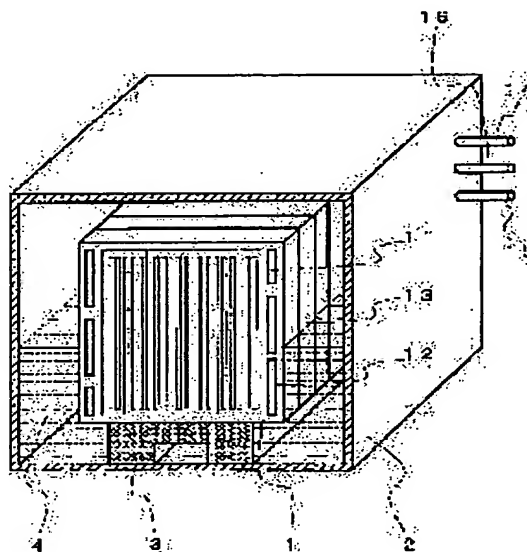
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(54) POLYMER ELECTROLYTE FUEL CELL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a polymer electrolyte fuel cell of a compact type wherein electric insulation is maintained satisfactorily, even under severe conditions, and heat of reaction is collected efficiently.

SOLUTION: A stack 1 of the fuel cell is contained in a sealed container 2 and fixed to the sealed container 2 via an insulation space 3. An electrically insulative liquid 4 is filled in a space surrounding the stack 1 of the fuel cell within the sealed container 2, and the stack 1 of the fuel cell and the sealed container 2 are insulated electrically. Then, the electrically insulative liquid 4 risen in temperature, after receiving the heat of reaction, is fed to an outside heat exchanger to collect heat, and then the liquid is again returned to the sealed container 2.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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